

Roundabout Feasibility Initial Screening Tool

The intent of this screening tool is to provide a relatively quick assessment of the feasibility of a modern roundabout at a particular intersection in comparison to other appropriate forms of traffic control or road improvements. The intended outcome is to provide information to assist staff in deciding whether the safety and operational benefits of a roundabout outweigh potential limitation to freight.

1. Intersection location.
2. Project Description and the purpose and need for this project (e.g. add capacity, correct safety problem, pavement replacement, etc.).
3. Adjacent land use and access.
4. Contact the Motor Vehicle Division (MVD) to determine the number of oversized/overweight vehicles routed through this location annually and MVD's opinion of this route's importance to freight movement.
5. Attach sketches of the current configuration and of the proposed configurations showing:
 - Intersection control.
 - Number of legs.
 - Lanes on each leg.
 - Existing and projected traffic volumes for each movement including percentage of trucks (HV).
 - Estimated costs for each presented option.
6. Advantages the roundabout option will provide at this location over other options.
7. Impact on nearby properties, including internal circulation routes within the property.
8. Design vehicle to be used for the roundabout.
9. Describe whether accommodation of superloads was considered (e.g. use a parallel route, close traffic temporarily and allow vehicles to use exit lanes for left turn movements, etc.).
10. What type of non-motorized vehicles are expected (pedestrians, bicycles, horse and buggy, etc.) and whether special accommodations are required.